

Notice of Allowability

Application No.

09/902,770

Examiner

David Y Jung

Applicant(s)

SHAPIRA

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/17/2001.
2. ☒ The allowed claim(s) is/are 1-78.
3. ☒ The drawings filed on 17 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____.
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

Claims 1-78 are allowed. The following is an examiner's statement of reasons for allowance. As noted in the specification (especially at pages 1-3): The present invention can be used in conjunction with a hardware-or software based firewall in portable computing devices such as cellular telephones and wireless connected PDAS that is adapted to connect to the Internet. The VPN mechanism of the present invention may also be implemented in software or a combination of hardware and software. Thus, the VPN mechanism can be used to achieve, for example, secure branch office connectivity over the WAN, secure remote access over the WAN or securing e-commerce transactions over the WAN. The VPN mechanism comprises a security association database (SAD) and related circuitry that is adapted to provide the necessary parameters to implement the security specifications for encryption/decryption and authentication. Each security association (SA) entry in the database comprises all the parameters that are necessary to receive and transmit VPN packets according to the specification. The invention performs security association (SA) related processing on an input packet stream. Note that the input packet stream may comprise both inbound and outbound packets. Typically, the invention is positioned between a WAN (i.e. the Internet) and a LAN. In this case, the VPN mechanism is operative to filter both inbound packets sent for the WAN to the LAN and outbound packets sent from the LAN to the WAN. The VPN mechanism of the present invention is operative to maintain a

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secure parameter table referred to as the SAD for storing the security related parameters related to one way connection. For a two way connection, two SAs need to be created. New security associations are added to the SA database and, once created, subsequent packets associate with this SA are processed in accordance with the parameters stored in the database for the particular SA. Depending on the packet and the SA parameters, the packet may be encrypted, decrypted, authenticated or dropped. Note that a packet is allowed only if the packet conforms to the security as specified in the SA database. The prior art did not teach or suggest the particular features of the claims.

Conclusion

Points of Contact

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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or faxed to:

(703) 746-7239, (for formal communications intended for entry)

Or:

(703) 746-5606 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Jung whose telephone number is (571) 272-3838 or Greg Morse whose telephone number is (571) 272-3836.

David Jung

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Patent Examiner

3/7/05

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